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[54] SOLID MICROPARTICLES FOR GENE DELIVERY

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[58] Field of Search 514/2, 44; 435/172.3, 435/240.1, 320.1, 440, 455; 424/93.21

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[57]

ABSTRACT

A target-specific gene delivery system is made of enzymatically degradable gelatin and nucleic acids (DNA or RNA) microparticles with a linking moiety or a targeting ligand attached to the surface. The delivery system can be made by a simple method. Targeting ligands can be attached to the microparticle directly or via a linking moiety. The linkage design allows the attachment of any molecule onto the microparticle surface including antibodies, cell adhesion molecules, hormones and other cell-specific ligands.

40 Claims, 8 Drawing Sheets